

PELLICER1A.ST25.txt
SEQUENCE LISTING

<110> PELLICER, Angel
LEONARDI, Peter
INGHIRAMI, Giorgio

<120> HUMAN RGR ONCOGENE AND TRUNCATED TRANSCRIPTS THEREOF DETECTED IN
T CELL MALIGNANCIES, ANTIBODIES TO THE ENCODED POLYPEPTIDES AND
METHODS OF USE

<130> PELLICER=1A

<140> NOT YET ASSIGNED

<141> 2003-07-23

<150> 60/397,873

<151> 2002-07-24

<160> 28

<170> PatentIn version 3.2

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<212> DNA

<213> Homo sapiens

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Cys Thr Ala Leu Leu Tyr Gly Gln Val Cys Pro Phe Gln Asp Ser Thr	
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Asp Gly Leu Arg Thr Ile Thr Ser Ile Leu Phe Asn Trp Pro Pro Glu	
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Asn Thr Ser Val Tyr Tyr Gln Pro Pro Gln Arg Ser Ser Phe Arg Ile	
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Lys Leu Ala Phe Arg Asn Leu Ser Trp Pro Gly Leu Gly Leu Glu Asp	
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Ala Leu Glu Pro Glu Ser Pro Ala Ala Leu Gly Pro Pro Gly Tyr Leu	
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Val Cys Pro Phe Gln Asp Ser Thr Asp Gly Leu Arg Thr Ile Thr Ser
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Pro Gln Arg Ser Ser Phe Arg Ile Lys Leu Ala Phe Arg Asn Leu Ser
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Trp Pro Gly Leu Gly Leu Glu Asp His Gln Glu Ile Val Leu Gly Gln
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Leu Val Leu Pro Glu Pro Asn Glu Ala Lys Pro Asp Asp Pro Ala Pro
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Arg Pro Gly Gln His Ala Leu Thr Met Pro Ala Leu Glu Pro Ala Pro
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Pro Leu Leu Ala Asp Leu Gly Pro Ala Leu Glu Pro Glu Ser Pro Ala
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Ala Leu Gly Pro Pro Gly Tyr Leu His Ser Ala Pro Gly Pro Ala Pro
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Ala Pro Gly Glu Gly Pro Pro Pro Gly Thr Val Leu Glu Pro Gln Ser
 180 185 190

Ala Pro Glu Ser Ser Cys Pro Cys Arg Gly Ser Val Lys Asn Gln Pro
 195 200 205

Ser Glu Glu Leu Pro Asp Met Thr Thr Phe Pro Pro Arg Leu Leu Ala
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Glu Gln Leu Thr Leu Met Asp Ala Glu Leu Phe Lys Lys Val Val Leu
 225 230 235 240

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Ala Arg Asp Arg Ala Arg Val Val Glu His Trp Ile Lys Val Ala Arg
290 295 300

Glu Cys Leu Ser Leu Asn Asn Phe Ser Ser Val His Val Ile Val Ser
305 310 315 320

Ala Leu Cys Ser Asn Pro Ile Gly Gln Leu His Lys Thr Trp Ala Gly
325 330 335

Val Ser Ser Lys Ser Met Lys Glu Leu Lys Glu Leu Cys Lys Lys Asp
340 345 350

Thr Ala Val Lys Arg Asp Leu Leu Ile Lys Ala Gly Ser Phe Lys Val
355 360 365

Ala Thr Gln Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu Arg Arg
370 375 380

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385 390 395 400

Gln Arg Leu Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn Thr Asn
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Lys Arg Ser Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu Leu Gln
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PELLICER1A.ST25.txt

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gtggatctgg gccagtgggg cggggagctt taagggtggc acccaggaga ggaaccccca 240

gagagtccag atg agg ctg cgg agg cag aag aag ggt gtg gtc ccc ttc 289
Met Arg Leu Arg Arg Gln Lys Lys Gly Val Val Pro Phe
1 5 10

ctg ggg gat ttt ctg act gag tta cag agg ctg gat tcg gcc atc ccg 337
Leu Gly Asp Phe Leu Thr Glu Leu Gln Arg Leu Asp Ser Ala Ile Pro
15 20 25

gac gac ctg gat ggc aac acc aac aag agg agc aag gag gtc cga gtt 385
Asp Asp Leu Asp Gly Asn Thr Asn Lys Arg Ser Lys Glu Val Arg Val
30 35 40 45

ctg cag gaa atg cag ctg ctc caa gtg gct gcc atg aat tac agg ctt 433
Leu Gln Glu Met Gln Leu Leu Gln Val Ala Ala Met Asn Tyr Arg Leu
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cgg cct ctt gag aaa ttt gtc acc tat ttc aca aga atg gag cag ctc 481
Arg Pro Leu Glu Lys Phe Val Thr Tyr Phe Thr Arg Met Glu Gln Leu
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Ser Asp Lys Glu Ser Tyr Lys Leu Ser Cys Gln Leu Glu Pro Glu Asn
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gaacaccggc tctgcacat ccctcaccca gaccgtagac accaggaac cacatctagg 642

aggctggcag ctgagctgca tcttgccctg gatcctcatc accaactgct cctgctggcc 702

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PELLICER1A.ST25.txt

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35 40 45

Met Gln Leu Leu Gln Val Ala Ala Met Asn Tyr Arg Leu Arg Pro Leu
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gtggatctgg gccagtgggg cggggagctt taaggtggcc acccaggaga ggaaccccca 240

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1 5 10

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Leu Gly Asp Phe Leu Thr Glu Leu Gln Arg Leu Asp Ser Ala Ile Pro
15 20 25

gac gac ctg gat ggc aac acc aac aag agg agc aag gag gtc cga gtt 385
Asp Asp Leu Asp Gly Asn Thr Asn Lys Arg Ser Lys Glu Val Arg Val
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PELLICER1A.ST25.txt

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 Arg Pro Leu Glu Lys Phe Val Thr Tyr Phe Thr Arg Met Glu Gln Leu
 65 70 75

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 Ser Asp Lys Glu Arg Leu His Cys Ser Val Thr Ile Ser Val His Cys
 80 85 90

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 95 100 105

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 Gly Thr Thr Ala Val His His His Val Arg Leu Phe Cys Cys Cys Tyr
 110 115 120 125

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 Lys Leu Ser Cys Gln Leu Glu Pro Glu Asn Pro
 130 135

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 35 40 45

Met Gln Leu Leu Gln Val Ala Ala Met Asn Tyr Arg Leu Arg Pro Leu
 50 55 60

Glu Lys Phe Val Thr Tyr Phe Thr Arg Met Glu Gln Leu Ser Asp Lys
 65 70 75 80

Glu Arg Leu His Cys Ser Val Thr Ile Ser Val His Cys Asn Val Cys
 85 90 95

Leu Leu Gly Ser Ser Pro Ser Ser Ala Ser Gln Ala Ala Gly Thr Thr
 100 105 110

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Leu Gly Ile Gln Val Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu
15 20 25
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Glu Ser Leu Thr Val Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe
30 35 40
aag gtg gcc acc cag gag agg aac ccc cag aga gtc cag atg agg ctg 376
Lys Val Ala Thr Gln Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu
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Val Thr Tyr Phe Thr Arg Met Glu Gln Leu Ser Asp Lys Glu Ser Tyr
125 130 135
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Lys Leu Ser Cys Gln Leu Glu Pro Glu Asn Pro
140 145 150
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gatcctcatc accaactgct cctctggcca ggatcaggcc atgggacttt tgtgagtcag 849
gcgggagacc attttatgtt tattttcttt agtgataag taagggtttt ttcttaactt 909
tcgttaaaat aaaatttttaaaaactattc aaaataaaaaa aaaaaaaaaa aaaaa 964

<210> 14
<211> 150
<212> PRT
<213> Homo sapiens

<400> 14

Met Ser Thr Val Pro Gly Gly Ser Arg His Ser Leu Gly Ile Gln Val
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Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu Glu Ser Leu Thr Val
20 25 30

Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe Lys Val Ala Thr Gln
35 40 45

Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu Arg Arg Gln Lys Lys
50 55 60

Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr Glu Leu Gln Arg Leu
65 70 75 80

Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn Thr Asn Lys Arg Ser
85 90 95

Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu Leu Gln Val Ala Ala
100 105 110

Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe Val Thr Tyr Phe Thr
115 120 125

Arg Met Glu Gln Leu Ser Asp Lys Glu Ser Tyr Lys Leu Ser Cys Gln
130 135 140

Leu Glu Pro Glu Asn Pro
145 150

<210> 15
<211> 1048
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (200)..(970)

<400> 15

PELLICER1A.ST25.txt

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tacaggaaac tgagccctca gaggccctgt gaggtagctg tggtttgcat cactctttac	120
agaagaggaa acagtctcag ggaggcccgg ctgcaagact gggtgacaca cacagggagt	180
gtggatctgg gccagtggg atg agc acg gtg cca ggt ggc tcc cgc cac tcc	232
Met Ser Thr Val Pro Gly Gly Ser Arg His Ser	
1 5 10	
ctg ggg atc caa gtg cgg ggt ggc tgg ggt gta act ggg gga gag gag	280
Leu Gly Ile Gln Val Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu	
15 20 25	
gag agc ctc act gtc cct gtc gct gac acc tgg cag gcg ggg agc ttt	328
Glu Ser Leu Thr Val Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe	
30 35 40	
aag gtg gcc acc cag gag agg aac ccc cag aga gtc cag atg agg ctg	376
Lys Val Ala Thr Gln Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu	
45 50 55	
cgg agg cag aag aag ggt gtg gtc ccc ttc ctg ggg gat ttt ctg act	424
Arg Arg Gln Lys Lys Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr	
60 65 70 75	
gag tta cag agg ctg gat tcg gcc atc ccg gac gac ctg gat ggc aac	472
Glu Leu Gln Arg Leu Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn	
80 85 90	
acc aac aag agg agc aag gag gtc cga gtt ctg cag gaa atg cag ctg	520
Thr Asn Lys Arg Ser Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu	
95 100 105	
ctc caa gtg gct gcc atg aat tac agg ctt cgg cct ctt gag aaa ttt	568
Leu Gln Val Ala Ala Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe	
110 115 120	
gtc acc tat ttc aca aga atg gag cag ctc agt gac aaa gag agg ggg	616
Val Thr Tyr Phe Thr Arg Met Glu Gln Leu Ser Asp Lys Glu Arg Gly	
125 130 135	
ttt cac gat gat gtc cag gat cgt ctc aaa ctc ctg gcc tca agc aat	664
Phe His Asp Asp Val Gln Asp Arg Leu Lys Leu Ala Ser Ser Asn	
140 145 150 155	
cca ccc acc tca gcc tcc caa agt act gac gtt aca ggt cta caa gct	712
Pro Pro Thr Ser Ala Ser Gln Ser Thr Asp Val Thr Gly Leu Gln Ala	
160 165 170	
gtc ctg cca gct gga gcc cga aaa ccc gta ggc tgg caa cat cct gca	760
Val Leu Pro Ala Gly Ala Arg Lys Pro Val Gly Trp Gln His Pro Ala	
175 180 185	
gtg gct ggg aac cca ccg gga tgc tgg cca gaa cac cgg ctc tgc acc	808
Val Ala Gly Asn Pro Pro Gly Cys Trp Pro Glu His Arg Leu Cys Thr	
190 195 200	
atc cct cac cca gac cgt aga cac cag gga acc aca tct agg agg ctg	856
Ile Pro His Pro Asp Arg Arg His Gln Gly Thr Ser Arg Arg Leu	
205 210 215	
gca gct cag ctg cat ctt gcc ctg gat cct cat cac caa ctg ctc ctg	904
Ala Ala Gln Leu His Leu Ala Leu Asp Pro His His Gln Leu Leu Leu	
220 225 230 235	
ctg gcc agg atc agg cca tgg gac ttt tgt gag tca ggc ggg aga cca	952
Leu Ala Arg Ile Arg Pro Trp Asp Phe Cys Glu Ser Gly Gly Arg Pro	

240

245

250

ttt tat gtt tat ttt ctt tagtgataa gtaagggttt tttcttaact
 Phe Tyr Val Tyr Phe Leu
 255

1000

ttcgttaaaa taaaatttta aaaaactatt caaaataaaa aaaaaaaaa

1048

<210> 16
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 16

Met Ser Thr Val Pro Gly Gly Ser Arg His Ser Leu Gly Ile Gln Val
 1 5 10 15

Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu Glu Ser Leu Thr Val
 20 25 30

Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe Lys Val Ala Thr Gln
 35 40 45

Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu Arg Arg Gln Lys Lys
 50 55 60

Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr Glu Leu Gln Arg Leu
 65 70 75 80

Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn Thr Asn Lys Arg Ser
 85 90 95

Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu Leu Gln Val Ala Ala
 100 105 110

Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe Val Thr Tyr Phe Thr
 115 120 125

Arg Met Glu Gln Leu Ser Asp Lys Glu Arg Gly Phe His Asp Asp Val
 130 135 140

Gln Asp Arg Leu Lys Leu Leu Ala Ser Ser Asn Pro Pro Thr Ser Ala
 145 150 155 160

Ser Gln Ser Thr Asp Val Thr Gly Leu Gln Ala Val Leu Pro Ala Gly
 165 170 175

Ala Arg Lys Pro Val Gly Trp Gln His Pro Ala Val Ala Gly Asn Pro
 180 185 190

Pro Gly Cys Trp Pro Glu His Arg Leu Cys Thr Ile Pro His Pro Asp
 195 200 205

PELLICER1A.ST25.txt

Arg Arg His Gln Gly Thr Thr Ser Arg Arg Leu Ala Ala Gln Leu His
210 215 220

Leu Ala Leu Asp Pro His His Gln Leu Leu Leu Ala Arg Ile Arg
225 230 235 240

Pro Trp Asp Phe Cys Glu Ser Gly Gly Arg Pro Phe Tyr Val Tyr Phe
245 250 255

Leu

<210> 17
<211> 1240
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (200)..(622)

<400> 17
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tacaggaaac tgagccctca gaggccctgt gaggtagctg tggtttgcac cactctttac 120
agaagaggaa acagtctcag ggaggcccgg ctgcaagact gggtgacaca cacagggagt 180
gtggatctgg gccagtggg atg agc acg gtg cca ggt ggc tcc cgc cac tcc 232
Met Ser Thr Val Pro Gly Gly Ser Arg His Ser
1 5 10
ctg ggg atc caa gtg cgg ggt ggc tgg ggt gta act ggg gga gag gag 280
Leu Gly Ile Gln Val Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu
15 20 25
gag agc ctc act gtc cct gtc gct gac acc tgg cag gcg ggg agc ttt 328
Glu Ser Leu Thr Val Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe
30 35 40
aag gtg gcc acc cag gag agg aac ccc cag aga gtc cag atg agg ctg 376
Lys Val Ala Thr Gln Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu
45 50 55
cgg agg cag aag aag ggt gtg gtc ccc ttc ctg ggg gat ttt ctg act 424
Arg Arg Gln Lys Lys Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr
60 65 70 75
gag tta cag agg ctg gat tgc gcc atc ccg gac gac ctg gat ggc aac 472
Glu Leu Gln Arg Leu Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn
80 85 90
acc aac aag agg agc aag gag gtc cga gtt ctg cag gaa atg cag ctg 520
Thr Asn Lys Arg Ser Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu
95 100 105
ctc caa gtg gct gcc atg aat tac agg ctt cgg cct ctt gag aaa ttt 568
Leu Gln Val Ala Ala Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe
110 115 120
gtc acc tat ttc aca aga atg gag cag ctc agt gac aaa gag ggg gtt 616
Val Thr Tyr Phe Thr Arg Met Glu Gln Leu Ser Asp Lys Glu Gly Val
125 130 135

PELLICER1A.ST25.txt

tca cga tgatgtccag gatcgtctca aactcctggc ctcaagcaat ccacccacct 672
 Ser Arg
 140
 cagcctccca aagtactgac gttacaggtg tgagccaccc cacctggcct agagaggctc 732
 tcccgtggcc agctgcagag agcctatggc catgcctcca cggccagcat caagccctgt 792
 tgcattggga ccactgggga cccaggattc cagctgggca ggcactgaca ggggacctga 852
 tgtgtggctc atgggtggcct cacagctgct tctctgtcct gcctacaagc tgcctgcca 912
 gctggagccc gaaaacccgt aggctggcaa catcctgcag tggctgggaa cccaccggga 972
 tgctggccag aacaccggct ctgcaccatc cctcaccag accgtagaca ccaggggaac 1032
 cacatctagg aggctggcag ctgagctgca tcttgccctg gatcctcatc accaactgct 1092
 cctgctggcc aggatcaggc catgggactt ttgtgagtca ggcgggagac cattttatgt 1152
 ttattttctt tagtgtataa gtaagggttt tttcttaact ttcgttaaaa taaaatttta 1212
 aaaaactatt caaaataaaa aaaaaaaaa 1240

<210> 18
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 18

Met Ser Thr Val Pro Gly Gly Ser Arg His Ser Leu Gly Ile Gln Val
 1 5 10 15

Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu Glu Ser Leu Thr Val
 20 25 30

Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe Lys Val Ala Thr Gln
 35 40 45

Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu Arg Arg Gln Lys Lys
 50 55 60

Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr Glu Leu Gln Arg Leu
 65 70 75 80

Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn Thr Asn Lys Arg Ser
 85 90 95

Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu Leu Gln Val Ala Ala
 100 105 110

Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe Val Thr Tyr Phe Thr
 115 120 125

Arg Met Glu Gln Leu Ser Asp Lys Glu Gly Val Ser Arg
 130 135 140

PELLICER1A.ST25.txt

<210> 19
 <211> 529
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (14)..(463)

<400> 19
 ctgggccagt ggt atg agc acg gtg cca ggt ggc tcc cgc cac tcc ctg 49
 Met Ser Thr Val Pro Gly Gly Ser Arg His Ser Leu
 1 5 10

ggg atc caa gtg cgg ggt ggc tgg ggt gta act ggg gga gag gag gag 97
 Gly Ile Gln Val Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu Glu
 15 20 25

agc ctc act gtc cct gtc gct gac acc tgg cag gcg ggg agc ttt aag 145
 Ser Leu Thr Val Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe Lys
 30 35 40

gtg gcc acc cag gag agg aac ccc cag aga gtc cag atg agg ctg cgg 193
 Val Ala Thr Gln Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu Arg
 45 50 55 60

agg cag aag aag ggt gtg gtc ccc ttc ctg ggg gat ttt ctg act gag 241
 Arg Gln Lys Lys Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr Glu
 65 70 75

tta cag agg ctg gat tgc gcc atc ccg gac gac ctg gat ggc aac acc 289
 Leu Gln Arg Leu Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn Thr
 80 85 90

aac aag agg agc aag gag gtc cga gtt ctg cag gaa atg cag ctg ctc 337
 Asn Lys Arg Ser Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu Leu
 95 100 105

caa gtg gct gcc atg aat tac agg ctt cgg cct ctt gag aaa ttt gtc 385
 Gln Val Ala Ala Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe Val
 110 115 120

acc tat ttc aca aga atg gag cag ctc agt gac aaa gag agc tac aag 433
 Thr Tyr Phe Thr Arg Met Glu Gln Leu Ser Asp Lys Glu Ser Tyr Lys
 125 130 135 140

ctg tcc tgc cag ctg gag ccc gaa aac ccg taggggtttt tcttaacttt 483
 Leu Ser Cys Gln Leu Glu Pro Glu Asn Pro
 145 150

cgttaaaata aaattttaaa aaactattca aaataaaaaa aaaaaa 529

<210> 20
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 20

Met Ser Thr Val Pro Gly Gly Ser Arg His Ser Leu Gly Ile Gln Val
 1 5 10 15

Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu Glu Ser Leu Thr Val
 20 25 30

PELLICER1A.ST25.txt

Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe Lys Val Ala Thr Gln
35 40 45

Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu Arg Arg Gln Lys Lys
50 55 60

Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr Glu Leu Gln Arg Leu
65 70 75 80

Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn Thr Asn Lys Arg Ser
85 90 95

Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu Leu Gln Val Ala Ala
100 105 110

Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe Val Thr Tyr Phe Thr
115 120 125

Arg Met Glu Gln Leu Ser Asp Lys Glu Ser Tyr Lys Leu Ser Cys Gln
130 135 140

Leu Glu Pro Glu Asn Pro
145 150

<210> 21
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (181)..(462)

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tacaggaaac tgagccctca gaggccctgt gaggtagctg tggtttgcac cactctttac 120
agaagagggg cggggagctt taaggtggcc acccaggaga ggaaccccca gagagtccag 180
atg agg ctg cgg agg cag aag aag ggt gtg gtc ccc ttc ctg ggg gat 228
Met Arg Leu Arg Arg Gln Lys Lys Gly Val Val Pro Phe Leu Gly Asp
1 5 10 15
ttt ctg act gag tta cag agg ctg gat tcg gcc atc ccg gac gac ctg 276
Phe Leu Thr Glu Leu Gln Arg Leu Asp Ser Ala Ile Pro Asp Asp Leu
20 25 30
gat ggc aac acc aac aag agg agc aag gag gtc cga gtt ctg cag gaa 324
Asp Gly Asn Thr Asn Lys Arg Ser Lys Glu Val Arg Val Leu Gln Glu
35 40 45
atg cag ctg ctc caa gtg gct gcc atg aat tac agg ctt cgg cct ctt 372
Met Gln Leu Leu Gln Val Ala Ala Met Asn Tyr Arg Leu Arg Pro Leu
50 55 60
gag aaa ttt gtc acc tat ttc aca aga atg gag cag ctc agt gac aaa 420

PELLICER1A.ST25.txt

Glu Lys Phe Val Thr Tyr Phe Thr Arg Met Glu Gln Leu Ser Asp Lys
65 70 75 80

gag agc tac aag ctg tcc tgc cag ctg gag ccc gaa aac ccg 462
Glu Ser Tyr Lys Leu Ser Cys Gln Leu Glu Pro Glu Asn Pro
85 90

taggctggca acatcctgca gtggctggga acccaccggg atgctggcca gaacaccggc 522

tctgcaccat cccacacca gaccgtaga caccagggaa ccacatctag gaggctggca 582

gctcagctgc atcttgccct ggatcctcat caccaactgc tcctgctggc caggatcagg 642

ccatgggact tttgtgagtc aggcgggaga ccattttatg tttattttct ttagtgtata 702

agtaagggtt ttttcttaac tttcgttaaa ataaaatttt aaaaaactat tcaaaataaa 762

aaaaaaaaa 771

<210> 22
<211> 94
<212> PRT
<213> Homo sapiens

<400> 22

Met Arg Leu Arg Arg Gln Lys Lys Gly Val Val Pro Phe Leu Gly Asp
1 5 10 15

Phe Leu Thr Glu Leu Gln Arg Leu Asp Ser Ala Ile Pro Asp Asp Leu
20 25 30

Asp Gly Asn Thr Asn Lys Arg Ser Lys Glu Val Arg Val Leu Gln Glu
35 40 45

Met Gln Leu Leu Gln Val Ala Ala Met Asn Tyr Arg Leu Arg Pro Leu
50 55 60

Glu Lys Phe Val Thr Tyr Phe Thr Arg Met Glu Gln Leu Ser Asp Lys
65 70 75 80

Glu Ser Tyr Lys Leu Ser Cys Gln Leu Glu Pro Glu Asn Pro
85 90

<210> 23
<211> 1044
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (196)..(966)

<400> 23
gggtgctcgt gcctggttct tcctcagagg gatgacggtg agaacaaggc aacagctaca 60

ggaaactgag ccctcagagg ccctgtgagg tagctgtggt ttgcatcact ctttacagaa 120

gaggaaacag tctcagggag gcccggtctg aagactgggt gacacacaca gggagtgtgg 180

PELLICER1A.ST25.txt

atctgggcca gtggt atg agc acg gtg cca ggt ggc tcc cgc cac tcc ctg	231
Met Ser Thr Val Pro Gly Gly Ser Arg His Ser Leu	
1 5 10	
ggg atc caa gtg cgg ggt ggc tgg ggt gta act ggg gga gag gag gag	279
Gly Ile Gln Val Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu Glu	
15 20 25	
agc ctc act gtc cct gtc gct gac acc tgg cag gcg ggg agc ttt aag	327
Ser Leu Thr Val Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe Lys	
30 35 40	
gtg gcc acc cag gag agg aac ccc cag aga gtc cag atg agg ctg cgg	375
Val Ala Thr Gln Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu Arg	
45 50 55 60	
agg cag aag aag ggt gtg gtc ccc ttc ctg ggg gat ttt ctg act gag	423
Arg Gln Lys Lys Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr Glu	
65 70 75	
tta cag agg ctg gat tgc gcc atc ccg gac gac ctg gat ggc aac acc	471
Leu Gln Arg Leu Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn Thr	
80 85 90	
aac aag agg agc aag gag gtc cga gtt ctg cag gaa atg cag ctg ctc	519
Asn Lys Arg Ser Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu Leu	
95 100 105	
caa gtg gct gcc atg aat tac agg ctt cgg cct ctt gag aaa ttt gtc	567
Gln Val Ala Ala Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe Val	
110 115 120	
acc tat ttc aca aga atg gag cag ctc agt gac aaa gag aga tgg ggt	615
Thr Tyr Phe Thr Arg Met Glu Gln Leu Ser Asp Lys Glu Arg Trp Gly	
125 130 135 140	
ttc acg atg atg tcc agg atc gtc tca aac tcc tgg cct caa gca atc	663
Phe Thr Met Met Ser Arg Ile Val Ser Asn Ser Trp Pro Gln Ala Ile	
145 150 155	
cac cca cct cag cct ccc aaa gta ctg acg tta cag cta caa gct gtc	711
His Pro Pro Gln Pro Pro Lys Val Leu Thr Leu Gln Leu Gln Ala Val	
160 165 170	
ctg cca gct gga gcc cga aaa ccc gta ggc tgg caa cat cct gca gtg	759
Leu Pro Ala Gly Ala Arg Lys Pro Val Gly Trp Gln His Pro Ala Val	
175 180 185	
gct ggg aac cca ccg gga tgc tgg cca gaa cac cgg ctc tgc acc atc	807
Ala Gly Asn Pro Pro Gly Cys Trp Pro Glu His Arg Leu Cys Thr Ile	
190 195 200	
cct cac cca gac cgt aga cac cag gga acc aca tct agg agg ctg gca	855
Pro His Pro Asp Arg Arg His Gln Gly Thr Thr Ser Arg Arg Leu Ala	
205 210 215 220	
gct cag ctg cat ctt gcc ctg gat cct cat cac caa ctg ctc ctg ctg	903
Ala Gln Leu His Leu Ala Leu Asp Pro His His Gln Leu Leu Leu Leu	
225 230 235	
gcc agg atc agg cca tgg gac ttt tgt gag tca ggc ggg aga cca ttt	951
Ala Arg Ile Arg Pro Trp Asp Phe Cys Glu Ser Gly Gly Arg Pro Phe	
240 245 250	
tat gtt tat ttt ctt tagtgtataa gtaagggttt tttcttaact ttcgttaaaa	1006
Tyr Val Tyr Phe Leu	
255	

taaaatttta aaaaactatt caaaataaaa aaaaaaaa

1044

<210> 24
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 24

Met Ser Thr Val Pro Gly Gly Ser Arg His Ser Leu Gly Ile Gln Val
 1 5 10 15

Arg Gly Gly Trp Gly Val Thr Gly Gly Glu Glu Glu Ser Leu Thr Val
 20 25 30

Pro Val Ala Asp Thr Trp Gln Ala Gly Ser Phe Lys Val Ala Thr Gln
 35 40 45

Glu Arg Asn Pro Gln Arg Val Gln Met Arg Leu Arg Arg Gln Lys Lys
 50 55 60

Gly Val Val Pro Phe Leu Gly Asp Phe Leu Thr Glu Leu Gln Arg Leu
 65 70 75 80

Asp Ser Ala Ile Pro Asp Asp Leu Asp Gly Asn Thr Asn Lys Arg Ser
 85 90 95

Lys Glu Val Arg Val Leu Gln Glu Met Gln Leu Leu Gln Val Ala Ala
 100 105 110

Met Asn Tyr Arg Leu Arg Pro Leu Glu Lys Phe Val Thr Tyr Phe Thr
 115 120 125

Arg Met Glu Gln Leu Ser Asp Lys Glu Arg Trp Gly Phe Thr Met Met
 130 135 140

Ser Arg Ile Val Ser Asn Ser Trp Pro Gln Ala Ile His Pro Pro Gln
 145 150 155 160

Pro Pro Lys Val Leu Thr Leu Gln Leu Gln Ala Val Leu Pro Ala Gly
 165 170 175

Ala Arg Lys Pro Val Gly Trp Gln His Pro Ala Val Ala Gly Asn Pro
 180 185 190

Pro Gly Cys Trp Pro Glu His Arg Leu Cys Thr Ile Pro His Pro Asp
 195 200 205

Arg Arg His Gln Gly Thr Thr Ser Arg Arg Leu Ala Ala Gln Leu His
 210 215 220

Leu Ala Leu Asp Pro His His Gln Leu Leu Leu Leu Ala Arg Ile Arg
 225 230 235 240

PELLICER1A.ST25.txt

Pro Trp Asp Phe Cys Glu Ser Gly Gly Arg Pro Phe Tyr Val Tyr Phe
 245 250 255

Leu

<210> 25
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic

<400> 25
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<210> 26
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic

<400> 26
 guccuugca ggcgacaaat t 21

<210> 27
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic

<400> 27
 uuacaggcuu cgccucuut t 21

<210> 28
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic

<400> 28
 aagaggccga agccuguaat t 21